

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/001281

| A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. ⁷ C07C67/343, C07B61/00, C07C69/738, 269/04, C07C271/22, C07F7/18, C07B53/00, C07D307/32, C07D207/18 According to International Patent Classification (IPC) or to both national classification and IPC | | |
|--|--|---|
| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int. Cl. ⁷ C07C67/343, C07B61/00, C07C69/738, 269/04, C07C271/22, C07F7/18, C07B53/00, C07D307/32, C07D207/18 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1940-1992 Toroku Jitsuyo Shinan Koho 1994-1996 Kokai Jitsuyo Shinan Koho 1971-1992 Jitsuyo Shinan Toroku Koho 1996-2005 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAPLUS (STN), REGISTRY (STN) | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | Shu KOBAYASHI, Catalytic, Asymmetric Mannich-type Reactions of N-Acylimino Esters: Reactivity, Diastereo- and Enantioselectivity, and Application to Synthesis of N-Acylated Amino Acid., J.A.M.CHEM.SOC., 2003, Vol.125, No.9, pages 2507 to 2515 | 1-12 |
| A | JP 2003-260366 A (Japan Science and Technology Corp.), 16 September, 2003 (16.09.03), (Family: none) | 1-12 |
| A | JP 2003-260363 A (Japan Science and Technology Corp.), 16 September, 2003 (16.09.03), (Family: none) | 1-12 |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex. | | |
| * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family | | |
| Date of the actual completion of the international search 01 March, 2005 (01.03.05) | | Date of mailing of the international search report 22 March, 2005 (22.03.05) |
| Name and mailing address of the ISA/ Japanese Patent Office | | Authorized officer |
| Facsimile No. | | Telephone No. |

ATTACHMENT "C"

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| A | Shu KOBAYASHI, Catalytic, Asymmetric Mannich-type Reactions of N-Acylimino Esters for Direct Formation of N-Acylated Amino Acid Derivatives. Efficient Synthesis of a Novel Inhibitor of Ceramide Trafficking, HPA-12, Organic Letters, 2002, Vol.4, No.1, pages 143 to 145 | 1-12 |

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The invention of claims 1 to 5 is directed to a process wherein a wide variety of products are produced from a vast plurality of raw materials through a nucleophilic addition reaction of enamide compound accompanied by hydroxyl formation to carbonyl. However, the concrete disclosure in the description relates only to the use of raw materials of structure specified in claim 6 and ensuing claims.

In this connection, it appears that it is of technical common knowledge at the date of filing of this application that the stereospecific reaction of chemical substance is often restricted by the whole three-dimensional structure or other functional groups so that even if the same partial structure is had, induction of desired steric reaction is not necessarily easy.

Consequently, only some parts of these claims are supported by the description within the meaning of PCT Article 6 and disclosed thereby within the meaning of PCT Article 5.

Therefore, search has been carried out on parts supported by the description and disclosed therein, namely, the subject matter of the invention of claim 6 and ensuing claims.